AUTODOC CLUB

How to change front brake discs on **MERCEDES-BENZ VITO Tourer (W447)** – replacement guide

SIMILAR VIDEO TUTORIAL

This video shows the replacement procedure of a similar car part on another vehicle

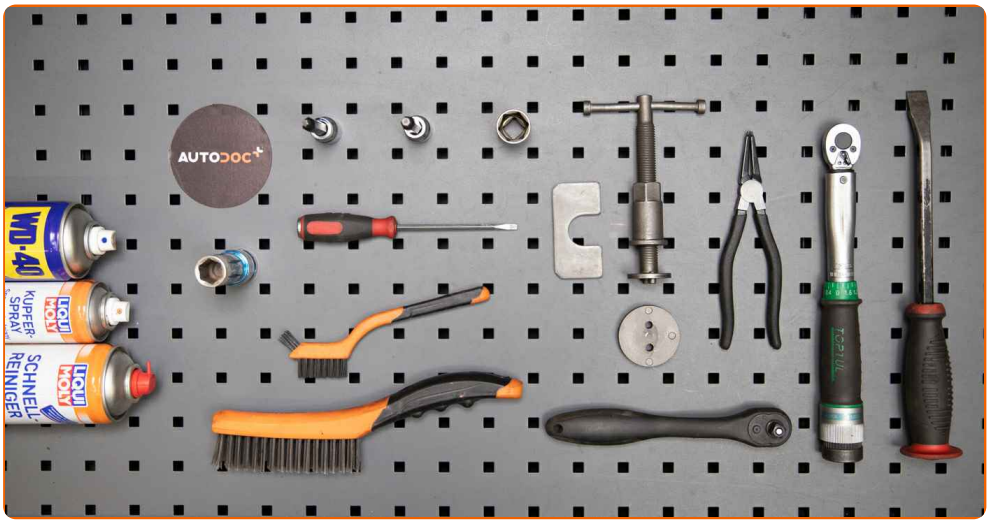
Important!

This replacement procedure can be used for:
MERCEDES-BENZ VITO Tourer (W447) 114 CDI / 114 BlueTEC 2.2 (447.701, 447.703, 447.705), MERCEDES-BENZ VITO Tourer (W447) 119 BlueTEC 2.2 (447.701, 447.703, 447.705)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ VITO Bus (W639) 115 CDI 2.2

REPLACEMENT: BRAKE DISCS – MERCEDES-BENZ VITO TOURER (W447). TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Torx bit T30
- HEX bit no.H6.
- Drive socket # 21
- Wheel impact socket #17
- Ratchet wrench
- Flat Screwdriver
- Brake caliper wind back tool
- Round-nose pliers
- Crow bar
- Wheel chock

Buy tools

Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). AUTODOC experts recommend:

- The replacement procedure is identical for both brake disks on the same axle.
- Replace the brake disks on the car MERCEDES-BENZ VITO Tourer (W447) in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – MERCEDES-BENZ VITO Tourer (W447) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.

2 Secure the wheels with chocks.

3 Loosen the wheel mounting bolts. Use wheel impact socket #17.

4 Raise the front of the car and secure on supports.

5 Unscrew the wheel bolts.

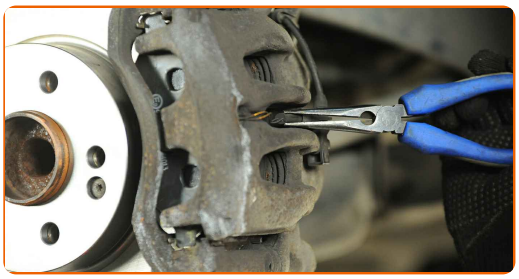
Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

6 Remove the wheel.

7 Remove the dust boot caps of the brake caliper guide pins.

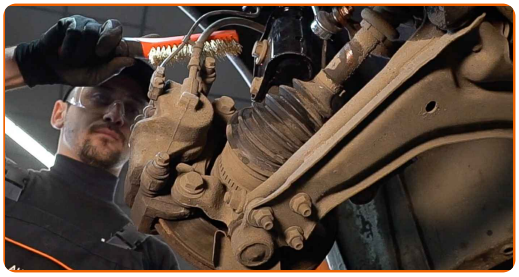
8 Disconnect the brake pad wear sensor plug. Use round-nose pliers.



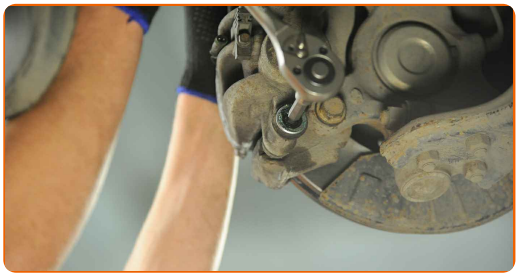
Please note!

- Some cars are not equipped with the brake pad wear sensor.

9 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



10 Unscrew the brake caliper fastening. Use HEX No.H6. Use a ratchet wrench.



11 Remove the guide pins from the brake caliper.

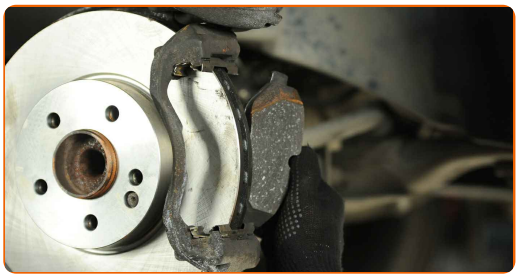
12 Spread the brake pads. Use a crowbar.

13 Remove the brake caliper.

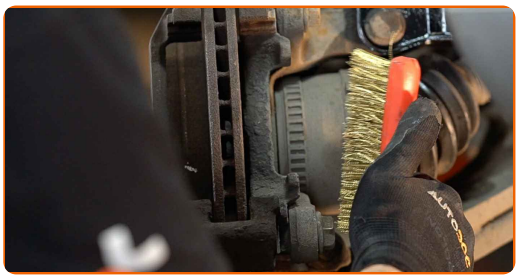
Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

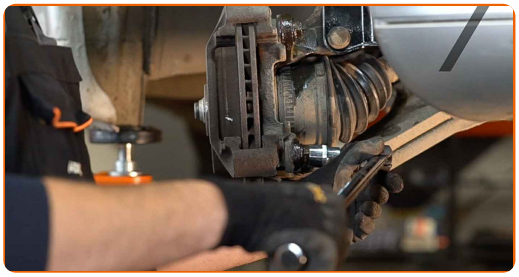
14 Remove the brake pads.



15 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



16 Unscrew the caliper bracket fastening. Use a drive socket #21. Use a ratchet wrench.



17 Remove the caliper bracket.

18 Clean the brake disc fastener. Use a wire brush. Use WD-40 spray.

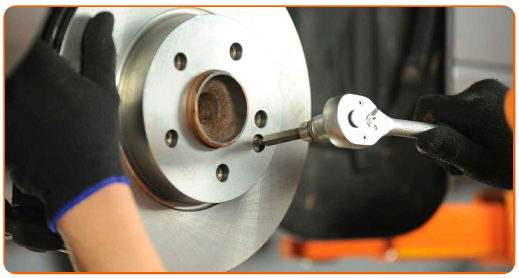
19 Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.

20 Remove the brake disc.

21 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.

22 Install the brake disc.

23 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 18 Nm torque.



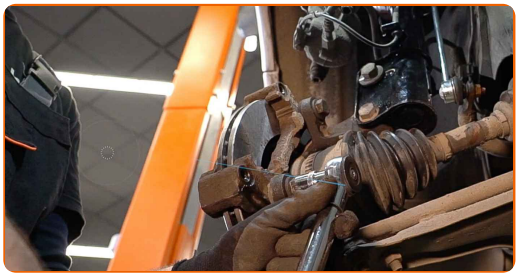
24 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

AUTODOC recommends:

- After applying the spray, wait a few minutes.

25 Install the brake caliper bracket.

26 Tighten the brake caliper bracket. Use a drive socket #21. Use a torque wrench. Tighten it to 172 Nm torque.

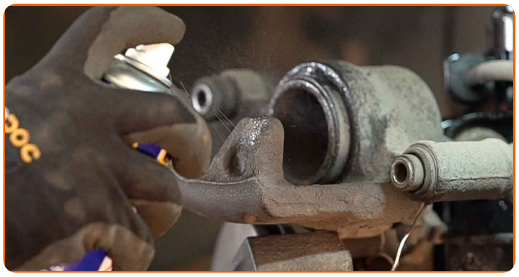


27 Remove the retaining springs of the brake pads. Use a flat screwdriver.

28 Install the retaining springs of the brake pads.

29 Install the brake pads. Use a flat screwdriver.

30 Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.



Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). Tip:

- After applying the spray, wait a few minutes.

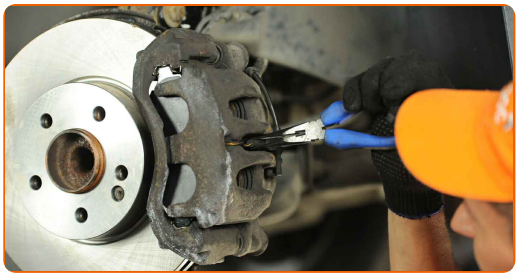
31 Press in the brake caliper piston. Use brake caliper wind back tool.

32 Install the brake caliper and fix it.

33 Screw in the guide pins.

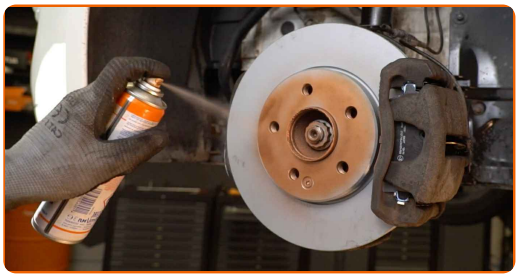
34 Tighten the brake caliper fasteners. Use HEX No.H6. Use a torque wrench. Tighten it to 35 Nm torque.

35 Connect the brake pad wear sensor plug.



36 Install the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.

37 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



38 Clean the brake disk surface. Use a brake cleaner.

Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

39 Install the wheel.

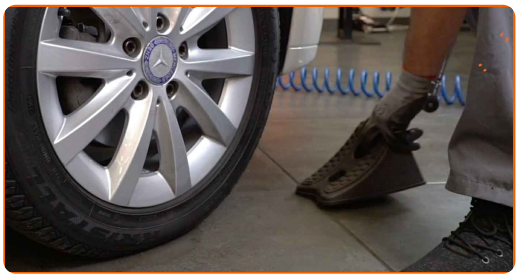
AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ VITO Tourer (W447)

40 Screw in the wheel bolts. Use wheel impact socket #17.

41 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 130 Nm torque.

42 Remove the jacks and chocks.



Replacement: brake discs – MERCEDES-BENZ VITO Tourer (W447). Tip:

- Check the brake fluid level in the expansion tank and refill if necessary.

43 Tighten the brake fluid reservoir cap. Close the hood.

AUTODOC recommends:

- MERCEDES-BENZ VITO Tourer (W447) – Without starting the engine, press the brake pedal several times until it feels firm.

WELL DONE!

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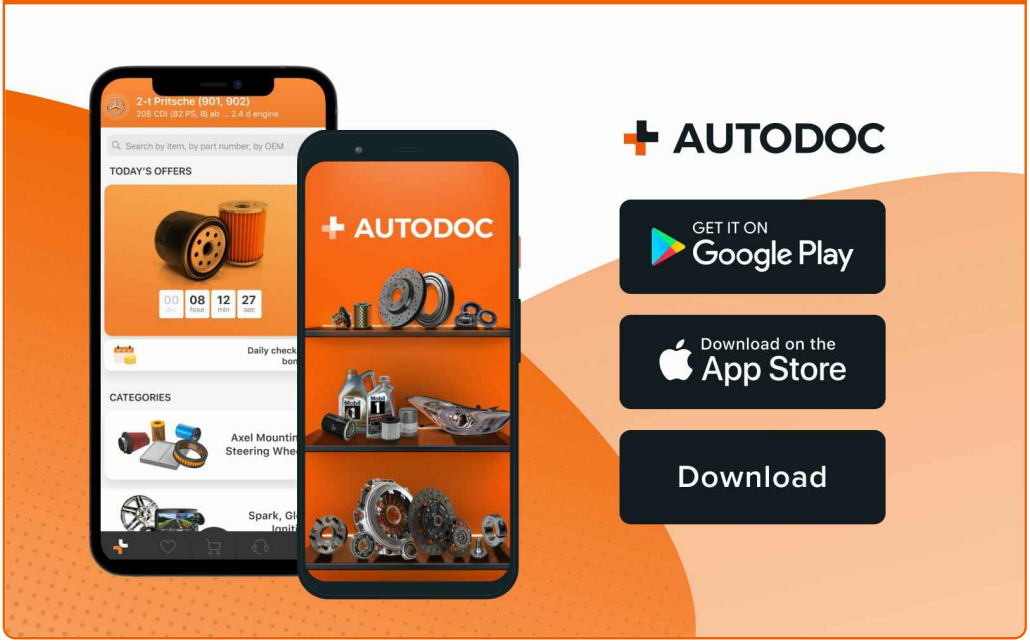

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